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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,494	11/05/2003	Hiroto Isoda	03187	6272
23338 75	90 08/24/2006		EXAMINER	
DENNISON, SCHULTZ & MACDONALD			WALFORD, NATALIE K	
1727 KING STI SUITE 105	REET		ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			2879	
			DATE MAIL ED: 08/24/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)			
Office Action Summary		10/700,494	ISODA, HIROTO			
	omec Action Gammary	Examiner	Art Unit			
	The MAILING DATE of this communication app	Natalie K. Walford	2879			
Period fo		ears on the cover sheet with the c	orrespondence address –			
WHIC - Exte after - If NC - Failu Any earn	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Openiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
	Responsive to communication(s) filed on <u>02 June 2006</u> .					
'=	This action is FINAL. 2b) This action is non-final.					
3)∟	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,2,5,6 and 8-18 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-2, 5-6, and 8-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>05 November 2003</u> is/at Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
2) Notic	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P				
	er No(s)/Mail Date	6) Other:				

DETAILED ACTION

Response to Amendment

The Amendment, tiled on June 2, 2006, has been entered and acknowledged by the Examiner.

Cancellation of claims 3-4 and 7 has been entered. Newly claims 8-18 has been entered Claims 1-2, 5-6, and 8-18 are pending in the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5-6, and 8-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Hochstein (US 6,045,240).

Regarding claim 1, Hochstein discloses a light emitting device in figure 8 comprising: a base member formed from a plurality of electric conductive members (item 50) alternating with insulating members (item 26), each of the insulating members being disposed to secure and isolate conductive members (see FIG. 8), the base member presenting first and opposite faces which are composed of alternating conductive and insulating members; a light emitting diode (item 28) mounted on a side of one of the conductive members on the first face; an electrically connecting means (items 30 and 32) to connect the light emitting diode and with at least two of the conductive members for applying current to the light emitting diode; a sealing member (see

FIG. 3, item not labeled) covering the light emitting diode and the electrically connecting means for protection; and a projection (FIG. 3, item 36a) outwardly extended for heat release from a side of the conductive member different from the side on which the light emitting diode is mounted.

Regarding claim 2, Hochstein discloses the device according to claim 1 wherein the projection is connected to an external cooling member for heat radiation (FIG. 3, item 38).

Regarding claim 5, Hochstein discloses the device according to claim 2 further comprising an external print substrate (FIG. 3, item 36) secured to the base member at the opposite face thereof and having an opening so as to insert the projection of the conductive member and to contact the projection with the cooling member secured to the print substrate at the other side thereof (column 5, lines 32-54).

Regarding claim 6, Hochstein discloses the device according to claim 2 wherein the cooling member has a plurality of cooling fins (column 5, lines 34-35).

Regarding claim 8, Hochstein discloses a light emitting device in figures 3 and 8 comprising: a base member formed by combining at least first and second electric conductive members (item 50) and insulating members (item 26), each of the insulating members disposed to secure and isolate each of the conductive members (see FIG. 8); a circuit substrate (item 36) mounted on the base member, the circuit substrate having an opening which exposes a part of the upper surface of the first conductive member (area surrounding bottom of item 50); a light emitting diode (item 28) mounted on the upper surface of the first conductive member within the opening; and electrical connecting means (items 30 and 32) provided on the circuit substrate for electrically connecting the light emitting diode with at least the second conductive member.

Regarding claim 9, Hochstein discloses the device according to claim 8, further comprising a projection (FIG. 3, item 36a) projected from at least a surface different from the upper surface of the first conductive member.

Regarding claim 10, Hochstein discloses the device according to claim 9, further comprising an external cooling member for heat radiation, wherein the projection is connected the external cooling member (FIG. 3, item 38).

Regarding claim 11, Hochstein discloses the device according to claim 8, wherein circuit substrate has at least one circuit pattern secured (FIG. 8, item 58) and at least one wire connected between the circuit and the light emitting diode so as to apply current the light emitting diode (column 6, lines 26-34).

Regarding claim 12, Hochstein discloses the device according to claim 9, further comprising an external print substrate (FIG. 3, item 36) secured to the base member at an upper side thereof and having an opening so as to insert the projection of the conductive member and to contact the projection with the cooling member secured to the print substrate at the other side thereof (column 5, lines 32-54).

Regarding claim 13, Hochstein discloses the device according to claim 10, wherein the cooling member has a plurality of cooling fins (column 5, lines 34-35).

Regarding claim 14, Hochstein discloses a light emitting device in figures 3 and 8 comprising: a base member formed by combining at least three electric conductive members (item 50) and insulating members (item 26), each of the insulating members being disposed to secure and isolate each of the conductive members (see FIG. 8); a circuit substrate (item 36) mounted on the base member, the circuit substrate having an opening which exposes a part of an

upper surface of a first of said conductive members (area surrounding bottom of item 50); a light emitting diode (item 28) mounted on the upper surface of the first conductive member within the opening; electrically connecting means (items 30 and 32) provided on the circuit substrate for electrically connecting the light emitting diode with the second and third conductive members; a projection (item 36a) outwardly extended for heat release from the other side of the upper surface of the first conductive member.

Regarding claim 15, Hochstein discloses the device according to claim 14, wherein the projection is connected to an external cooling member for heat radiation (FIG. 3, item 38).

Regarding claim 16, Hochstein discloses the device according to claim 14, wherein the circuit substrate has at least one circuit pattern (FIG. 8, item 58) secured thereto and at least one wire connected between the circuit pattern and the light emitting diode so as to apply current to the light emitting diode (column 6, lines 26-34).

Regarding claim 17, Hochstein discloses the device according to claim 15, further comprising an external print substrate (FIG. 3, item 36) secured to the base member at an upper side thereof and having an opening so as to insert the projection of the conductive member and to contact the projection with the cooling member secured the print substrate at the other side thereof (column 5, lines 32-54).

Regarding claim 18, Hochstein discloses the device according to claim 15, wherein the cooling member has a plurality of cooling fins (column 5, lines 34-35).

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie K. Walford whose telephone number is (571)-272-6012. The examiner can normally be reached on Monday-Friday, 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

nkw

JOSEPH WILLIAMS